



2020 Estimates of the Total Actual Emissions from the Air Pollution Source.

Natural Gas Combustion –

Natural Gas Combustion = 6,293 Dekatherms(DTH) / year

6,293 DTH = 6,293 mmBTU

$$6,293 \text{ MMBTU} \times \frac{10^6 \text{SCF}}{1020 \text{ mmBTU}} = 6.16 \text{ lb}/10^6 \text{ scf}$$

$\text{NO}_x = 94 \times 6.16 / 2000 = 0.29 \text{ TPY}$

$\text{CO} = 40 \times 6.16 / 2000 = 0.12 \text{ TPY}$

$\text{CO}_2 = 120,000 \times 6.16 / 2000 = 370 \text{ TPY}$

$\text{PM} = 7.6 \times 6.16 / 2000 = 0.02 \text{ TPY}$

$\text{SO}_2 = .6 \times 6.16 / 2000 = 0.0018 \text{ TPY}$

$\text{VOC} = 3.8 \times 6.16 / 2000 = 0.001 \text{ TPY}$

Emission Factors are from EPA AP-42 Emission Factors for Criteria Pollutants and Greenhouse Gases from Natural Gas Combustion.

Propane Combustion –

Propane Combustion = 2198 Gallons/Year

1 gal propane = 90,500 BTU

$$\frac{2198 \text{ gal propane} \times 90,500 \text{ BTU/gal}}{10^6} = 198.9 \text{ mmBTU}$$
$$\frac{198.9 \text{ mmBTU} \times 10^3 \text{ gal}}{91.5 \text{ mmBTU}} = 2.2 \text{ lb}/10^3 \text{ gal}$$

$\text{PM} = 2.2 \times 0.7 / 2000 = 0.0008 \text{ TPY}$

$\text{SO}_2 = 2.2 \times 0.1 / 2000 = 0.0001 \text{ TPY}$



$$\text{NO}_x = 2.2 \times 13/2000 = 0.01 \text{ TPY}$$

$$\text{CO}_2 = 2.2 \times 12,500/2000 = 13.75 \text{ TPY}$$

$$\text{CO} = 2.2 \times 7.5/2000 = 0.008 \text{ TPY}$$

Emission Factors are from EPA AP-42 Emission Factors for Criteria Pollutants and Greenhouse Gases from Propane Combustion.

Diesel Fuel Combustion –

Diesel Fuel Combustion is 1786 gallons/year

$$1 \text{ gal diesel} = 129,800 \text{ BTU}$$

$$\frac{1733 \text{ gal diesel} \times 129,800 \text{ btu/gal}}{10^6} = 225 \text{ mmBTU Diesel}$$

$$\text{NO}_x = 225 \times 4.41/2000 = 0.5 \text{ TPY}$$

$$\text{CO} = 225 \times .95/2000 = 0.1 \text{ TPY}$$

$$\text{SO}_x = 225 \times .29/2000 = 0.03 \text{ TPY}$$

$$\text{PM}_{10} = 225 \times .31/2000 = 0.03 \text{ TPY}$$

Emission Factors are from EPA AP-42 Emission Factors for Criteria Pollutants and Greenhouse Gases from Diesel Fuel Combustion.

VOC Emissions From Coating Operations –

Emissions of VOC Emissions from coating operations are calculated using information provided on the SDS and by performing the following calculation.

$$\text{VOC} = \text{Gallons of Coating Applied} \times \text{lbs VOC content}/2000 = \text{TPY VOC}$$

Total TPY VOC = the sum the VOC for each specific type of Coating.